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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/212,210	12/16/98	TRAN	T 905.01

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EXAMINER

COUSO, J

ART UNIT

PAPER NUMBER

2621

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DATE MAILED:

10/20/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/212,210

Applicant(s)

TRAN ET AL.

Examiner

J. L. GUSO

Group Art Unit

2621

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☐ Responsive to communication(s) filed on _____.
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 1-15 is/are pending in the application.
Of the above claim(s) _____ is/are withdrawn from consideration.
- ☒ Claim(s) 2-8, 11 and 13-15 is/are allowed.
- ☐ Claim(s) 1, 9-10 and 12 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____.
 - ☐ received in this national stage application from the International Bureau (PCT Rule 1 7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☒ Notice of Reference(s) Cited, PTO-892
- ☒ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

Art Unit: 2621

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1, 9-10 and 12 are rejected under 35 U.S.C. 102() as being anticipated by Chui et al. (U. S. Patent 5,604,824).

Chui discloses a method and apparatus for compression and decompression of documents and the like using splines and spline-wavelets.

With regard to claim 1, Chui describes an apparatus for block encoding of windows of digitally represented images comprising a chain of lattices of lapped transforms with dyadic rational lifting steps (see figures 4-18 and refer for example to column 28, lines 4-25).

In regard to claim 9, Chui describes an apparatus for transforming $M \times M$ blocks of digital image intensities comprising lapped transforms with overlapping factor K and having butterfly structures and lifting steps to generate M -channel uniform linear phase perfect reconstruction filter banks (see figures 4-18 and refer for example to column 28, lines 4-25).

With regard to claim 10, Chui describes K to be equal 2 (see figures 4-18 and refer for example to column 28, lines 4-25).

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In regard to claim 12, Chui describes a method of block coding windows of digitally represented images comprising successive steps of processing the output of each step through a following step in a chain of lattices of lapped transforms with dyadic rational lifting steps (see figures 4-18 and refer for example to column 28, lines 4-25).

3. Claims 2-8, 11 and 13-15 are allowed.
4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.


Li et al., Corset et al., Barsnley et al., Bouchard et al., Rust, Hirabayashi and Ito all disclose systems similar to applicant's claimed invention.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose L. Couso whose telephone number is (703) 305-4774. The examiner can normally be reached on Monday through Friday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Boudreau, can be reached on (703) 305-4706. The fax phone number for this Group is (703) 308-9051 or (703) 306-9052.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-8576.

jlc
October 18, 2000


JOSE L. COUSO
PRIMARY EXAMINER